

Sudden Oak Death

Phytophthora ramorum

Phytophthora ramorum, also known as Sudden Oak Death, is a water mold dispersed through wind, water and soil. As of July 11, 2006, there are 43 proven host plants that carry and transmit *P. ramorum*, and 54 associated plants with the potential to become hosts. The list continues to expand, as more samples are collected and found to be positive for the organism. It is capable of rapidly spreading, as increasing numbers of ornamental plants are shipped both nationally and internationally. The wide range of host plants includes rhododendron, camellia, Douglas fir, viburnum, and lilac, in addition to other hardwood species and herbaceous plants. Pathogenic effects can vary from leaf spots and shoot tip dieback to complete mortality. Often the disease is difficult to detect, therefore an accurate diagnosis requires testing of any suspicious plant material that appears to be infected.

During the 2006 National Survey for Sudden Oak Death, 26 nurseries tested positive in California. Thirteen nurseries tested positive in Oregon, nine in Washington, two in Florida, and one each in the following states: Alabama, Connecticut, Georgia, Indiana, Maine, Pennsylvania, and Michigan.

The Montana Department of Agriculture (MDA) surveyed nurseries and retail outlets throughout ten counties, collecting 600 samples for testing. All results were negative for the detection of the pathogen.



O'Brien, Joseph USDA Forest Service <http://www.forestryimages.com>

***P. ramorum* positive rhododendron leaf.**
Other signs and symptoms may vary from plant to plant.

Phytophthora ramorum has been detected on these hosts

Coast Live Oak & CA Black Oak



Bay Laurel



Sample leaves

Rhododendron



Sample leaves

Toyon



Sample leaves

Buckeye



Sample leaves

Maple



Sample leaves

Madrone



Sample leaves

Tanoak



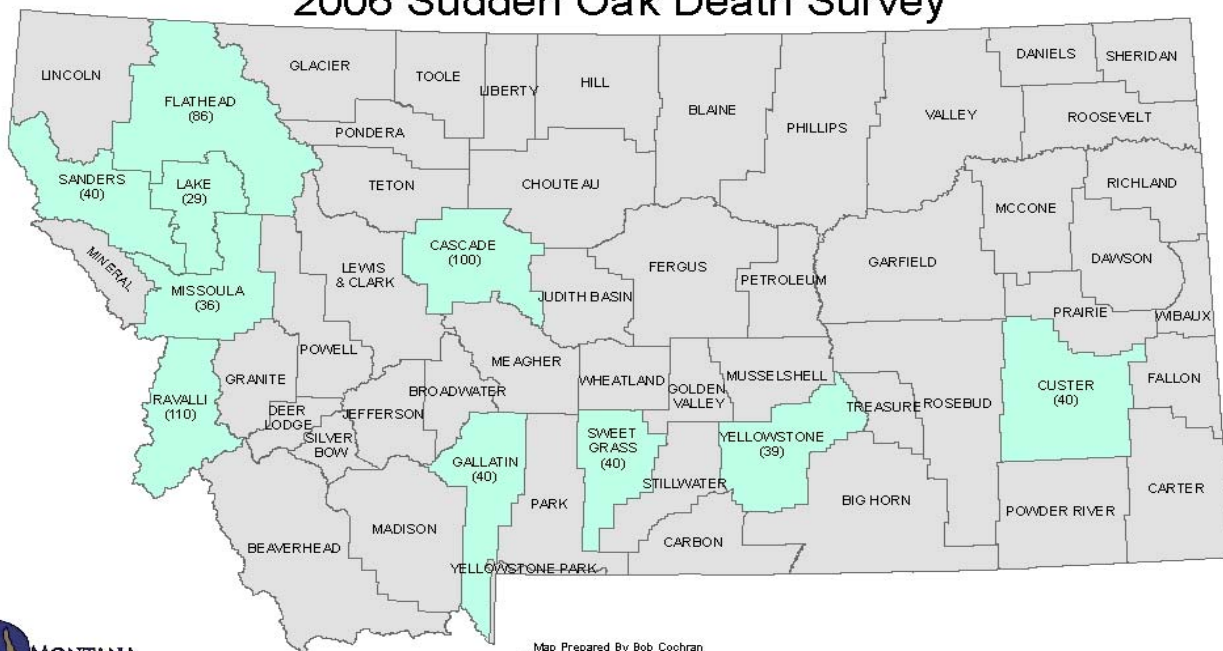
Sample leaves

Manzanita



Sample dead branch- on the border between the dead and the live areas.

Montana Department of Agriculture 2006 Sudden Oak Death Survey



Map Prepared By Bob Cochran
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Projection: Lambert Conformal Conic
Coordinate System: MT State Plane FIPS 2500
Datum: North American Datum 1983

Phytophthora ramorum

Sampled Counties (number of samples)